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Page 1 of 3

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ATTY DOCKET NO. 127-01

SERIAL NO. 10/018,418

FILING DATE 05/09/02

APPLICANT Morrell et al.

GROUP 1623

U.S. PATENT DOCUMENTS

Exmr. Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation Yes/No
AM		WO 97/45545	04.12.97	PCT	C12N 15/54	15/82	—

OTHER PRIOR ART (including Author, Title, Date, Pertinent Pages, etc.)

AM		Abel, G.J.W. et al., "Cloning and functional analysis of a cDNA encoding a novel 139 kDa starch synthase from potato (<i>Solanum tuberosum</i> L.), (1996) <i>Plant J.</i> 10(6):981-991
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		Baba, T. et al., "Identification, cDNA cloning, and gene expression of soluble starch synthase in rice (<i>Oryza sativa</i> L.) immature seeds," (1993) <i>Plant Physiol.</i> 103:565-573
		Craig, J. et al., "Mutations in the gene encoding starch synthase II profoundly alter amylopectin structure in pea embryos," (March 1998) <i>Plant Cell</i> 10:413-426
		Denyer, K. et al., "Identification of multiple isoforms of soluble and granule-bound starch synthase in developing wheat endosperm," (1995) <i>Planta</i> 196:256-265
		Dry, I. et al., "Characterization of cDNAs encoding two isoforms of granule-bound starch synthase which show differential expression in developing storage organs of pea and potato," (1992) <i>Plant J.</i> 2(2):193-202
↓		Edwards, A. et al., "Biochemical and molecular characterization of a novel starch synthase from potato tubers," (1995) <i>Plant J.</i> 8(2):283-294
AM		Gao, M. et al., "Characterization of <i>dull1</i> , a maize gene coding for a novel starch synthase," (March 1998) <i>Plant Cell</i> 10:399-412

Examiner: *Abel Morrell*

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Page 2 of 3



Form PTO 1449

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		Klösgen, R.B. et al., "Molecular analysis of the <i>waxy</i> locus of <i>Zea mays</i> ," (1986) <i>Mol. Gen. Genet.</i> 203:237-244
		Knight, M.E. et al., "Molecular cloning of starch synthase I from maize (W64) endosperm and expression in <i>Escherichia coli</i> ," (June 1998) <i>Plant J.</i> 14(5):613-622
		Li, Z. et al., "Cloning and characterization of a gene encoding wheat starch synthase I," (1999) <i>Theor. Appl. Genet.</i> 98:1208-1216
		Li, Z. et al., "The localization and expression of the class II starch synthases of wheat," (August 1999) <i>Plant Physiology</i> 120:1147-1155
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		Rahman, S. et al., "A complex arrangement of genes at a starch branching enzyme I locus in the D-genome donor of wheat," (1997) <i>Genome</i> 40:465-474
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		Takaoka, M. et al., "Structural characterization of high molecular weight starch granule-bound proteins in wheat (<i>Triticum aestivum</i> L.)," (1997) <i>J. Agric. Food Chem.</i> 45:2929-2934
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		<i>Abel</i> et al. ✓GenBank Accession #Y10416 (Jan. 1997) <i>S. tuberosum</i> mRNA for soluble starch synthase.
		<i>Block</i> et al., ✓GenBank Accession #U48227 (Jun. 1996) <i>Triticum aestivum</i> soluble starch synthase mRNA, partial cds..
		<i>Walter</i> et al., ✓GenBank Accession #AAB17085 (Oct. 1996) Starch synthase
		<i>Walter</i> et al., ✓GenBank Accession #U66377 (Oct. 1996) <i>Triticum aestivum</i> starch synthase mRNA, partial cds.
↓		✓ <i>Gao</i> et al. ✓GenBank Accession #AAC14014 (Apr. 1998) Starch synthase DULL1 [<i>Zea mays</i>]
<i>M</i>		✓ <i>Gao</i> et al. ✓GenBank Accession #AAC14015 (Apr. 1998) Starch synthase DULL1 [<i>Zea mays</i>]

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AM		P'Holst et al. ✓GenBank Accession #AAC17969 (Nov. 2001) Granule-bound starch synthase I precursor [<i>Chlamydomonas reinhardtii</i>].
		Bhullar et al. ✓GenBank Accession #CAB40374 (Apr. 1999) Starch synthase isoform SS III [<i>Vigna unguiculata</i>]
		Guo et al. ✓GenBank Accession #CAB86618 (Apr. 2002) Starch synthase IIa-1 [<i>Triticum aestivum</i>]
↓		Guo et al. ✓GenBank Accession #AJ269502 (Apr. 2002) <i>Triticum aestivum</i> mRNA for starch synthase IIa-1 (wSs2a-1 gene)
AM		Rahman et al. ✓GenBank Accession #AF076680 (May 1999) <i>Aegilops tauschii</i> starch branching enzyme-I (SBE-I) gene, complete cds.

EXAMINER

DATE CONSIDERED

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